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(54) **Torque wrench with angle sensor without external reference**

(57) An electronic torque wrench comprises a head (12) for coupling with a member to be tightened, a first sensor (14) for detecting the torque generated on the

head upon moving the wrench, a second sensor made up of a gyroscope (17) for detecting angular rotation of the head, means of calculation to find from the sensor detection information considered significant.

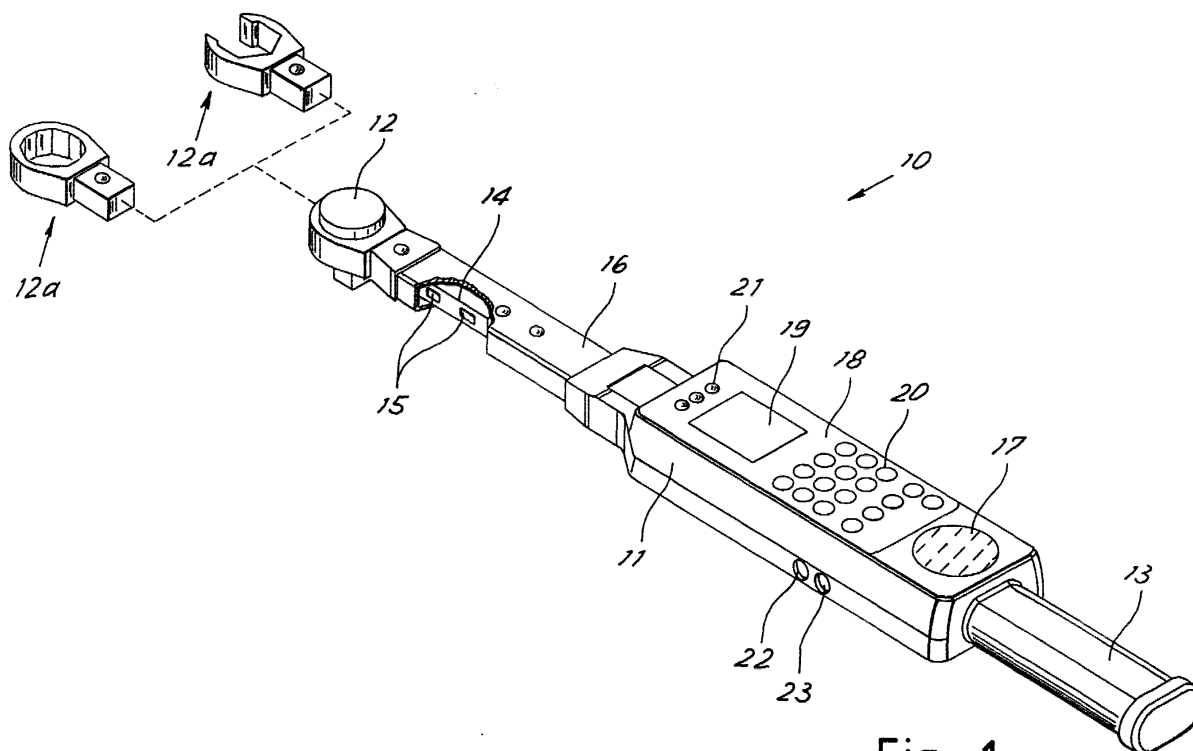


Fig. 1



European Patent
Office

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EP 00 20 0210

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	* page 9, line 20 - page 15, line 2; claims 1, 7, 8, 12, 16; figures 1-3 *			
The present search report has been drawn up for all claims				
Place of search MUNICH		Date of completion of the search 2 December 2002	Examiner Kühn, T	
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document				

EPO FORM 1503 03.02 (P04C01)

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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